





BILLY GOAT DL TRUCK LOADER VACUUM

Owner's Manual

DL1201L, DL1301H, DL1401SE, DL1801V, DL1801VE

Accessories

INTAKE

EXHAUST

HOSE REPLACEMENT KIT

EXHAUST HOSE KIT







Standard on DL units. [8"(203mm) x 10' (3.0m)] [10"(254mm) X 10'(3.0m)]

> 8" Hose P/N 811244 10" Hose P/N 791033



[7"(203mm) x 5' (1.5m)] flexible hose increases exhaust distance.

7" Flexible Hose P/N 812300



Allows the Debris loader to hang from a vertical side panel. (Not for use in transport)

P/N 812260



Allows the height of the exhaust chute to be raised.

P/N 812273



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Go to $\underline{\text{http://www.billygoat.com}} \text{ for French-Canadian translations of the product manuals.}$

Visitez http://www.billygoat.com pour la version canadienne-française des manuels de produits



	DL1201L	DL1301H	DL1401SE	DL1801V	DL1801VE
Engine: HP	12 (8.95 kW)	13 (9.69 kW)	14 (9.69 kW)	18 (13.4 kW)	18 (13.4 kW)
Engine: Model	HK291150124P-BPQE2	GX390U1QA2	EX400DE5030	3564420186EI	3564470288B1
Engine: Type	LCT OHV	HONDA	SUBARU	BRIGGS AND STRATTON	BRIGGS AND STRATTON
Engine: Fuel Capacity	6 qt. (5.68 L)	6.9 qt. (6.5 L)	7.4 qt. (7.0 L)	9qt. (8.52 L)	9qt. (8.52 L)
Engine: Oil Capacity	0.875 qt. (0.8 L)	1.16 qt. (1.1 L)	1.3 qt. (1.2 L)	1.75 qt. (1.66 L)	1.75 qt. (1.66 L)
Total Unit Weight:	204 lbs (92.5 kg)	207 lbs (93.9 kg)	267 lbs (93.9 kg)	267 lbs (121.1 kg)	267 lbs (121.1 kg)
Max operating slope	25 ⁰	25 ⁰	25°	25 ⁰	25 ⁰
Overall Height	74 7/8" (1.90m)	74 7/8" (1.90m)	74 7/8" (1.90m)	74 7/8" (1.90m)	74 7/8" (1.90m)
Overall Height with optional trailer	91"(2.31m)	91"(2.31m)	91"(2.31m)	91"(2.31m)	91"(2.31m)
Overall Width	32 ¼" (0.82m)	32 ¼" (0.82m)	32 ¼" (0.82m)	32 ¼" (0.82m)	32 ¼" (0.82m)
Overall Length	60" (1.52m)	60" (1.52m)	60" (1.52m)	60" (1.52m)	60" (1.52m)
In compliance with 2000/14/EEC standards	121 dB(a)	121 dB(a)	121 dB(a)	121 dB(a)	121 dB(a)
Sound at operators position	105 dB(a)	105 dB(a)	105 dB(a)	105 dB(a)	105 dB(a)
Vibration at operator position	0.02g	0.02g	0.02g	0.02g	0.02g

Battery (Electric Models Only)

	Model	CCA @ 0° F	AH Rating	Length	Width	Height
DL14	ETX12	180	10	5.9" (150mm)	3.4" (86mm)	5.2" (132mm)
DL18	U1 Group	275	19	6 7/8" (175mm)	4" (100mm)	6 1/8" (155mm)
Battery not						
included with						
machine						

SOUND



121 dB

SOUND LEVEL 105 dB(a) at Operator Position

Sound tests were conducted in accordance with 2000/14/EEC, and were performed on 6/18/07 under the conditions listed below.

Sound power level listed is the highest value for any model covered in this manual. Please refer to serial plate on the unit for the sound power level for your model.

General Conditions: Temperature: Wind Speed: Wind Direction: Humidity: Barometric Pressure:

Cloudy 74°F (23.2°C) 3.7 mph (21.6 kmh) South 83.5%

29.8 Hg (756 mm Hg)

VIBRATION DATA

VIBRATION LEVEL 0.02g

Vibration levels at the operator's handles were measured in the vertical, lateral and longitudinal directions using calibrated vibration test equipment. Tests were performed on 7-10-07 under the conditions listed below.

General Conditions:

Temperature: Wind Speed:

Wind Direction: Humidity:

Barometric Pressure:

Sunny 86°F (17°C) 13 mph (20 kph) North

49% 29.8"Hg (756mm Hg)

Form No F060711B Part No 812379 3



INSTRUCTION LABELS

The labels shown below were installed on your BILLY GOAT [®] DL Vacuum. If any labels are damaged or missing, replace them before operating this equipment. Item numbers from the Illustrated Parts List and part numbers are provided for convenience in ordering replacement labels. The correct position for each label may be determined by referring to the Figure and Item numbers shown.



DANGER KEEP HANDS AND FEET AWAY ITEM #18 P/N 400424



EAR EYE BREATHING ITEM# 31 P/N 890254



WARNING SECURE ITEM#62 P/N 790232



DANGER FLYING DEBRIS ITEM #61 P/N 810736



READ OWNERS MANUAL ITEM #30 P/N 830301



EXPLOSIVE FUEL ITEM #32 P/N 400268



LABEL SPARK ARRESTOR ITEM #15 P/N 100252



DL INSTRUCT/WARN ITEM #28 P/N 790142



WARNING ENGINE OVERHEAT ITEM #14 P/N 811215



SECURE NOZZLE ITEM #59 P/N 790232

ENGINE LABELS

HONDA







B&S VANGUARD









BILLY GOAT.

DL12/13/14/18 Owner's Manual

PACKING CHECKLIST

Your Billy Goat is shipped from the factory in one carton and is completely assembled except for the exhaust elbow, nozzle, handle loop for nozzle, hose booms, hose bands, hose coupler, hose clamps and related hardware.



READ all safety instructions before assembling unit.

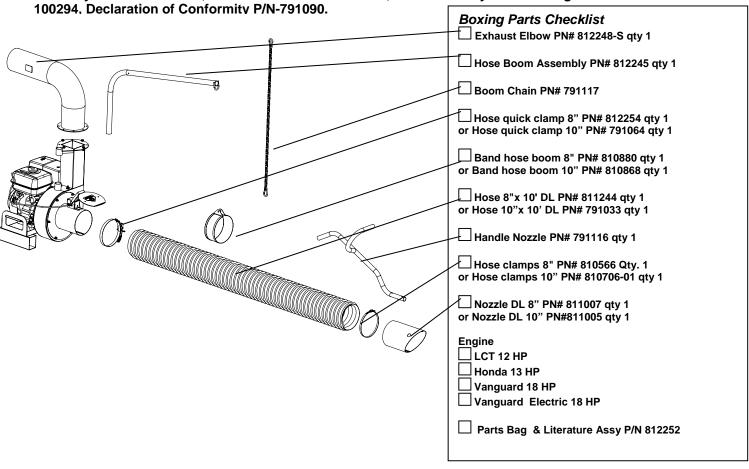
TAKE CAUTION when removing the unit from the box.

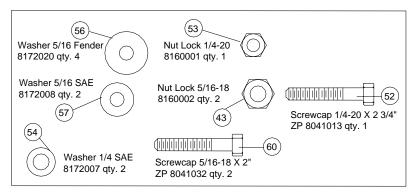


PUT OIL IN ENGINE BEFORE STARTING

PARTS BAG & LITERATURE ASSY

Warranty card P/N- 400972, Owner's Manual P/N-812379, General Safety and Warnings Manual P/N-





Parts Bag Hardware



ASSEMBLY

1. **SECURELY ATTACH** unit to the bed of a truck, trailer, or use the hanging brackets, so that the exhaust discharges into an enclosed container.

NOTE: This unit must be securely mounted to the bed of a truck or to a trailer before operating.

See page 14 for parts diagram to assemble

- 2. **ATTACH** hose to housing intake, using hose quick clamp (item 8) making sure to place the safety switch under the clamp (see interlock page 12. Then slide the hose onto the housing intake and place the shut off switch under the clamp. Make sure the shut off switch is pressed in or the vacuum will not start, and clamp the hose to the intake.
- 3. **ASSEMBLE** nozzle handle (item 11), to nozzle (item 10), using screws (item 60), fender washers (item 56), washers (item 57) and lock nuts (item 43).
- 4. **ATTACH** assembled nozzle to hose using hose clamp (item 9). Before tightening hose clamp, position nozzle handle upward when hose is stretched to prevent twisting load on hose assembly during operation.
- 5. ATTACH the hose boom (item 5) by sliding the boom through the ring on the top of housing and resting it in the cup on the top of the housing.
- 6. **ASSEMBLE** hose band (item 13) around hose and secure chain between flanges of the hose band using capscrew (item 52), washers (item 54), and lock nut (item 53). To adjust the hose boom height see page 11)
- 7. **SECURELY ATTACH** exhaust elbow (item 4) to the housing (see MOUNTING on page 10) with the hardware located on the exhaust chute.
- 8. INSTALL BATTERY (Electric Models Only) \(\triangle \) Due to the location of the battery it is recommended that only the specified battery be used on the DL1401SE and DL1801VE. This is due to the heat generated by the muffler and the location of the battery. Using the wrong size battery could result in premature failure, damage to unit or personal injury. The battery needs to be within the specification list on page 3. The U1 group or equivalent is recommended for the DL18VE (SEE PAGE 3 FOR BATTERY SPECIFICATIONS)
- 9. (Electric Models Only) Attach the battery cables to the battery and secure it to the unit with the hold down strap.

MOUNTING

MOUNTING: Main unit

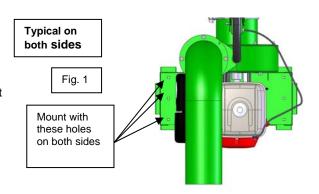
GENERAL: Unit must be securely mounted to a trailer, truck bed, hanging brackets, or other similar surface before use. Do not use this unit in a freestanding position. Unit is not stable until it has been secured in place.

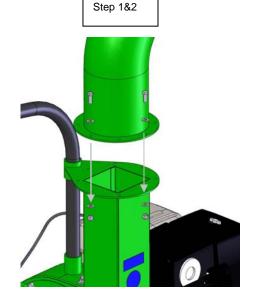
Secure unit by bolting through the base of the unit and through the mounting surface using 3/8" dia. bolts, with washers and locking nuts (see fig. 1)

MOUNTING: Exhaust elbow

Note: this process is easier with two people, one to support the exhaust elbow and one to attach plates and hardware.

- 1) Remove the bolts (item 50), washers (item 51), and nuts (item 41) from the parts bag.
- 2) Place the elbow on top of the housing chute and line up with the holes in the elbow with the housing in the desired position you want the exhaust to go.
- 3) Secure the elbow to the housing with the hardware provided. Make sure the hardware is properly tightened.





BILLY GOAT

DL12/13/14/18 Owner's Manual

VACUUMING OPERATION

EXHAUST DIRECTION & DISTANCE: Exhaust direction and distance are controlled by the rotation of the exhaust elbow. Typically debris is aimed to discharge to the rear of the container. The direction of discharge is adjusted by rotating the exhaust elbow on the housing and securing with the hardware provided.

NOTE: Elbow is heavy. Use caution when adjusting. Never stand directly under the elbow while adjusting direction of exhaust.

Never direct exhaust into an area where bystanders may cross the path of the debris.

INTAKE OPERATION: With machine running and fully assembled, move the nozzle in sweeping motions over debris. Always allow air to flow into the nozzle along with the debris. Do not completely block the nozzle when vacuuming, it will reduce performance, and increase clogging (See figure 3).

For removal of heavier debris, or debris that is stuck to the ground, rock nozzle forward to concentrate suction power around the debris (See figure 4).

ADJUSTING HOSE BOOM

Properly adjusting the boom will prevent most hose clogs from occurring and will maximize vacuum performance by keeping the hose straight and perpendicular to the housing (see fig. 5). Height adjustments are made by raising or lowering one of the attachment links to a different area on the chain.

UNCLOGGING A CLOGGED HOSE

With engine running and unit secured to a trailer, truck bed, or other similar surface, fully stretch hose in a straight line to dislodge the clog. If the clog will not clear, turn unit off, and allow engine to come to a complete stop. Remove hose and manually clear hose clog. **NOTE:** The clogged debris may be sharp. Always wear durable gloves when removing clog.

UNCLOGGING A CLOGGED HOUSING OR EXHAUST ELBOW

Turn engine off and wait for impeller to come to a complete stop. Disconnect spark plug wires and battery cables. Remove the hose from the housing and determine where the clog is located. If possible clear the clog through the intake opening. It may require removal of the intake adaptor (item 16) to allow access to clear the housing. If clog is in the elbow, carefully remove the elbow. Remove elbow by removing the bolts and nuts on the elbow clamp so that the plates can be removed.

NOTE: Elbow is very heavy. Do not stand directly under elbow during removal. **Danger**, the clog may contain sharp materials. Wearing durable gloves, clear the clog. Reconnect spark plug wire.

HOSE CARE AND TIPS

To increase hose life, periodically rotate hose and reposition nozzle and coupler on front plate of unit. This increases hose life by keeping hose from wearing only on one side.

Keep hose as straight as possible and avoid sharp bends during operation for best pickup and to avoid clogs.

Never drag hose. Always remove and store hose before transporting unit. Store hose straight and flat to maintain flexibility for next use.

THE HOSE IS A REPLACEABLE WEAR ITEM.

HOSE STORAGE: Storing hose in a covered area, out of sunlight and heat will prolong hose life. Do not store hose where it could be stepped on or where other objects could crush or damage hose.

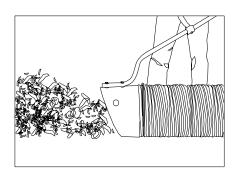


Fig. 3

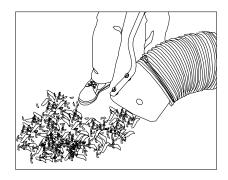
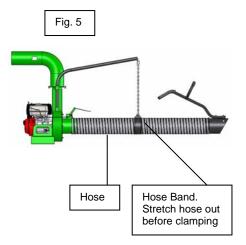


Fig. 4





MAINTENANCE

PERIODIC MAINTENANCE

Periodic maintenance should be performed at the following intervals:

Maintenance Operation	Every use	Every 5 hours (daily)	Every 10 Hours	Every 25 Hours
Inspect for loose, worn or damaged parts.		•		
Check engine oil and air filter	•			
Clean hose	•			
Engine (See Engine Manual)				
Inspect battery for damage or leak			•	
Keep engine free of debris	•			
Check battery terminal for corrosion				•
Check for excessive vibration		•		

IMPELLER REMOVAL

- 1. Wait for engine to cool and disconnect spark plug wires from the engine.
- 2. Remove the hose from the unit.
- 3. Unattach the hose from boom assembly.
- **4.** Remove the intake housing assembly (item 16) by removing (6) locknuts (item 44). Be careful to place intake assembly to the side without putting excess strain on safety switch wire harness
- 5. Remove impeller bolt (item 34), lock washer (item 35), and spacer (item 37) using 5/8" socket and impact wrench (see fig. 6).
- **6.** Once bolt is removed impeller should slide out freely. If the impeller doesn't slide off freely use penetrating oil and work the hub off using a pry bar. Do not use the pry bar on the impeller plate.
- 7. When impeller is free of the engine shaft, align impeller with the opening and pull it straight out of the housing.
- **8.** Using a new impeller bolt, washer, and lock washer, install new impeller in reverse order. **Note:** Be sure that the key is in place on the engine shaft before installing impeller.
- 9. Tighten impeller bolt. Torque the impeller bolt to [33-38 Ft. Lbs. (45-52 N.m)]
- 10. Repeat steps 2 through 5 in reverse order.
- 11. Reinstall spark plug wires.

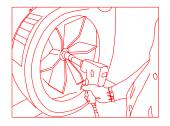
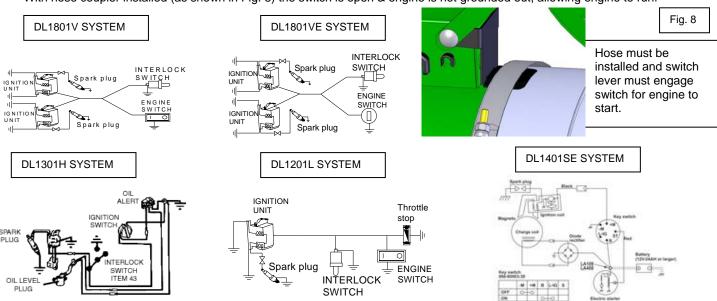


Fig. 6

INTERLOCK SYSTEM

With hose coupler installed (as shown in Fig. 8) the switch is open & engine is not grounded out, allowing engine to run.



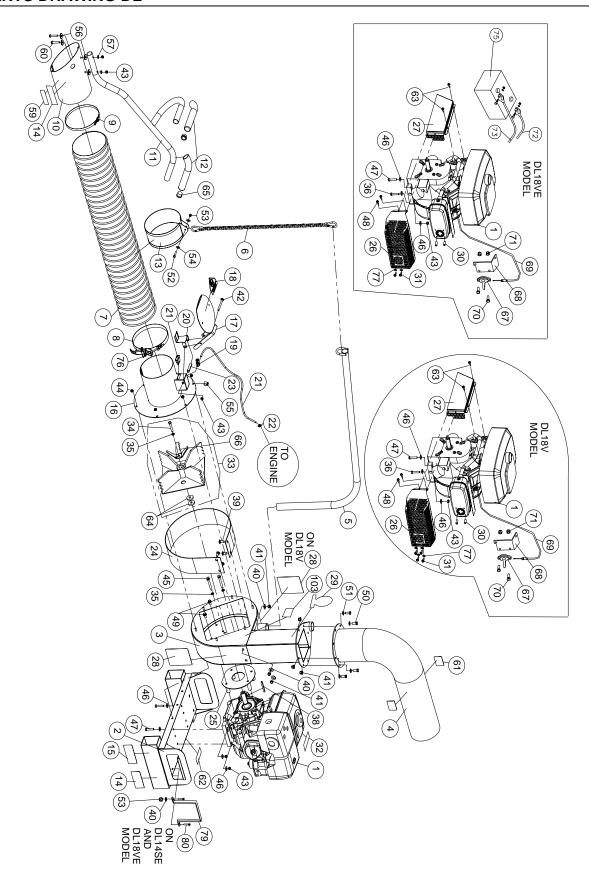


Troubleshooting

Problem	Possible Cause	Solution			
Abnormal vibration.	Loose or out of balance impeller or	Check impeller and replace if necessary			
	loose engine	Check engine.			
Will not vacuum or has poor	 Nozzle buried in debris. Clogged 	 Withdraw nozzle from debris pile. 			
vacuum performance	hose or exhaust. Excessive quantity of	Unclog hose or exhaust (see pg. 11)			
	debris.	Allow air to feed debris.			
Engine will not start.	Throttle & / or stop switch in off position. Out of gasoline. Bad or old gasoline. Spark plug wire disconnected. Harness wire is bad or disconnected from interlock switch. Hose not installed, allowing interlock wire to ground. Dirty air cleaner.	 Check stop switches, throttle, and gasoline. Connect spark plug wire. Clean or replace air cleaner. Install hose coupler securely to the unit and check whether interlock switch is engaged by lever. Check harness wire connection and replace if necessary. 			
Engine is locked, will not pull over.	Debris locked against impeller. Engine problem.	· See pg.11, Clearing a clogged impeller housing. Contact an engine servicing dealer for engine problems.			



PARTS DRAWING DL





PARTS LIST

ITEM		DL1201L		DL1301H		DL1401SE		DL1801V		DL1801VE	
11 EW	DESCRIPTION	PART	QTY	PART	QTY	PART	QTY	PART	QTY	PART	QTY
NO.		NO.		NO.		NO.		NO.		NO.	
1	ENGINE LCT	811250	1	-	-	-	-	-	-	-	-
	ENGINE HONDA	-	-	430366	1	-	-	-	-	-	-
	ENGINE VANGUARD	-	-	-	-	-	-	812240	1	-	-
	ENGINE VANGUARD ELECTRIC	-	-	-	-	-	-	-	-	812241	1
	ENGINE SUBARU ELECTRIC	-	-	-	-	812369	1	-	-	-	-
2	BASE ENGINE WA	812100-S	1	812100-S	1	812100-S	1	812100-S	1	812100-S	1
3	HOUSING WA DL12/13 W/LABELS	812216-S	1	812216-S	1	-	-	-	-	-	-
	HOUSING WA DL18 W/LABELS	-	-	-	-	812101-S	1	812101-S	1	812101-S	1
4	ELBOW ASSY 7" DL	812248-S	1	812248-S	1	812248-S	1	812248-S	1	812248-S	1
5	BOOM WA DL	812245	1	812245	1	812245	1	812245	1	812245	1
6	CHAIN HOSE HANG DL	791117	1	791117	1	791117	1	791117	1	791117	1
7	HOSE 8"X10"	811244	1	811244	1	-	-	-	-	-	-
	HOSE 10" X 10"	-	-	-	-	791033	1	791033	1	791033	1
8	CLAMP QUICK RELEASE 8"	812254	1	812254	1	-	-	-	-	-	-
	CLAMP QUICK RELEASE 10"	-	-	-	-	791064	1	791064	1	791064	1
9	CLAMP HOSE 8"	810566	1	810566	1	-	-	-	-	-	-
	CLAMP HOSE 10"	-	-	-	-	810706-01	1	810706-01	1	810706-01	1
10	NOZZLE 8" STEEL FORMED W/LABELS	811007-S	1	811007-S	1	-	-	-	-	-	-
	NOZZLE 10" STEEL FORMED W/LABELS	-	-	-	-	811005-S	1	811005-S	1	811005-S	1
11	HANDLE NOZZLE WA DEBRIS LOADER	791116	1	791116	1	791116	1	791116	1	791116	1
12	GRIP 1 1/4 I.D. X 9.5 LONG	440146	2	440146	2	440146	2	440146	2	440146	2
13	BAND HOSE BOOM 8" FORMED	810880	1	810880	1	-	-	-	-	-	-
	BAND HOSE BOOM 10" FORMED	-	-	-	-	810868	1	810868	1	810868	1
14	LABEL WARNING ENGINE OVERHEAT	811215	2	811215	2	811215	2	811215	2	811215	2
15	LABEL SPARK ARRESTOR	100252	1	100252	1	100252	1	100252	1	100252	1
16	PLATE FRONT WA DL 8"	812104-S	1	812104-S	1	-	•	-	·	-	-
	PLATE FRONT WA DL 10"	-	-	i	-	812103-S	1	812103-S	1	812103-S	1
17	FLAPPER WA 8" W/LABELS	812230-S	1	812230-S	1	-	•	-	-	-	-
	FLAPPER WA 10" W/LABELS	-	-	-	-	791102-S	1	791102-S	1	791102-S	1
18	LABEL WARNING OPEI	400424	1	400424	1	400424	1	400424	1	400424	1
19	STRAIN RELIEF HEYCO 1244	500282	1	500282	1	500282	1	500282	1	500282	1
20	LEVER HOSE SWITCH	791068	1	791068	1	791068	1	791068	1	791068	1
21	SWITCH AND HARNESS DL ASSY	791130	1	791130	1	791130	1	791130	1	791130	1
22	CONNECTOR TAP IN SQUEEZE	810673	1	810673	1	810673	1	-	•	-	-
23	SPACER 3/8" X 2 1/2"	900503	1	900503	1	900503	1	900503	1	900503	1
24	LINER DL12/13	812221	1	812221	1	ı	•	-	•	-	-
	LINER DL18	-	-	ı	-	812214	1	812214	1	812214	1
25	PLATE ENGINE MOUNT DL12/13	812235	1	812235	1	-	-	-	-	-	-
	PLATE ENGINE MOUNT DL18	-	-	-	-	812238	1	812238	1	812238	1
26	GUARD MUFFLER DL18	-	-	-	-	-	-	812242	1	812242	1
27	GUARD MANIFOLD DL18	-	-	-	•	-	-	812243	1	812243	1
28	LABEL DL INSTRUCTION/WARNING	790142	1	790142	1	790142	1	790142	1	790142	1
29	LABEL LOGO DL12/13/18	812213	1	812213	1	812213	1	812213	1	812213	1
30	SPACER CONTROL LIFT	-	•	i	•	ı	•	850198	4	850198	4
31	SCREW SN #10 X 1" TYPE A SLOT HWH	-	-	-	-	-	-	8122066	4	8122066	4
32	LABEL WARNING FUEL EN/SP	100261	1	-	-	-	-	100261	1	100261	1
33	IMPELLER ASSY	812257-S	1	812257-S	1	-	-	-		-	-
	IMPELLER ASSY	-	-	-	-	810930	1	810930	1	810930	1
34	SCREWCAP 3/8"-24 X 2 3/4" GR 8. W/PATCH	790167	1	790167	1	-	-	-	-	-	-
	SCREWCAP 3/8"-24 X 2 1/4" GR 8.		-	-	-	-	-	810932	1	810932	1
	SCREWCAP 3/8"-24 X 2" GR 8. W/PATCH		-	-	-	440237	1	-	_	-	
	TORQUE 33-38 FT LBS. (45-52 N.m)										
35	WASHER LOCK 3/8"	8177012	5	8177012	5	8177012	5	8177012	5	8177012	5



NO. PART NO.	
36 SCREWCAP 5/16-18 X 2" HCS ZP 8041032 2 8041 37 38 KEY 1/4 SQ X 2 3/4" 9201125 1 9201125 1 9201125 1 9201125 1 9201 39 BOLT CARRIAGE 3/8 -16 X 1" ZP 8024058 4 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160002 7 8	
37 38 KEY 1/4 SQ X 2 3/4" 39 BOLT CARRIAGE 3/8 -16 X 1" ZP 8024058	
38 KEY 1/4 SQ X 2 3/4" 9201125 1 920126 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024050 1	032 2
39 BOLT CARRIAGE 3/8 -16 X 1" ZP 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024058 4 8024050 4 8171004 4 81710003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002	
40 WASHER 3/8 FLAT CUT 8171004 4 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 8160002 7 <td>125 1</td>	125 1
41 NUT LOCK 3/8-16 HEX ZP 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 8 8160003 1 8024050 1 <td< td=""><td>058 4</td></td<>	058 4
42 BOLT CARRIAGE 5/16" - 18 X 3 1/2" ZP 8024050 1 8041053 4 8041053 4<	004 4
43 NUT LOCK 5/16-18 HEX ZP 8160002 7 8160002 8041053 4 8041053 4 8041053 4 8041053 4 8041031 4 8041031	003 8
44 NUT FLANGE 5/16-18 HEX ZP 350346 6 350346 6 350346 6 350346 10 20 <td< td=""><td>050 1</td></td<>	050 1
45 SCREWCAP 3/8-16 X 3" HCS ZP 8041058 4 8041058 4 - <td>002 7</td>	002 7
SCREWCAP 3/8-16 X 1 3/4" HCS ZP - - - 8041053 4 8041053 4 8041 46 WASHER 5/16 FLAT ZP 8171003 8<	46 10
46 WASHER 5/16 FLAT ZP 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 2 8041 9 941031 4 8041031 4 8041031 4 8041031 4 8041031 4 8041031 2 8041 8041031 4 8041050 4 </td <td>-</td>	-
46 WASHER 5/16 FLAT ZP 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 8 8171003 2 8041 9 941031 4 8041031 4 8041031 4 8041031 4 8041031 4 8041031 2 8041 8041031 4 8041050 4 </td <td>053 4</td>	053 4
47 SCREWCAP 5/16-18 X 1 3/4" HCS ZP 8041031 4 8041031 4 8041031 2 8041 48 SCREW SM 1/4 X 3/4" TYPE AB HX WF - - - - - 890359 2 8903 49 HEX WASHER FACE BOLT 3/8-16 X 3/4 791080 3 791080 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 <td< td=""><td></td></td<>	
48 SCREW SM 1/4 X 3/4" TYPE AB HX WF - - - - - 890359 2 8903 49 HEX WASHER FACE BOLT 3/8-16 X 3/4 791080 3 791080 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4	
49 HEX WASHER FACE BOLT 3/8-16 X 3/4 791080 3 791080 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4 8041050 4<	
50 SCREWCAP 3/8-16 X 1" HCS ZP 8041050 4 8041050 <	
51 WASHER 3/8 SAE 8172009 8 8172009	
52 SCREWCAP 1/4"-20 X 2 3/4" HCS ZP 8041013 1 8041013 1 8041013 1 8041013 1 8041013 1 8041	
NUT LOCK 3/8"-16 HEX (DL14 BATTERY BRACKET) 8160003 2	-
54 WASHER 1/4-20 HEX ZP 8172007 2 8172007 2 8172007 2 8172007 2 8172007 2 8172007 2	
55 CLAMP HOSE FUEL LINE 791070 2 791070 2 791070 2 791070 2 791070	
56 WASHER FENDER 5/16 8172020 4 8172020 4 8172020 4 8172020 4 8172020 5 5 6 WASHER FENDER 5/16 8172020 5 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
57 WASHER 5/16 SAE 8172008 2 8172008	
58	
59 LABEL SECURE NOZZLE 790301 1 790301	01 1
60 SCREWCAP 5/16" - 18 X 2" 8041032 2 8041032 2 8041032 2 8041032 2 8041032 2 8041	032 2
61 LABEL FLYING DEBRIS 810736 2 810736 2 810736 2 810736 2 810736	36 2
62 WARNING SECURE 790232 1 790232 1 790232 1 790232 1 790232 1 7902	32 1
63 SCREW SM 1/4 X 1" DRILL PT 430208 2 4302	08 2
64 SPACER 1" ID X 2" OD X 0.265 THK 830113 2 830113 2	-
SPACER 1" ID X 2" OD X 0.890 THK 830112 1	-
65 PLUG TUBE INSERT 1.25 OD 791056 2 791056 2 791056 2 791056 2 7910	
66 DEBRIS REDUCER DL12/13/18 812283 1 812283 1 812283 1 812283 1 812283	
67 THROTTLE CONTROL BLOWER 440013 1 4400	
68 BRACKET MOUNT THROTTLE CONTROL 812280 1 8122	
69 CABLE THROTTLE DL18 812281 1 8122	
70 SCREW MACH FLAT HD PHIL #10-24 830514 2 8305	
71 NUT LOCK #10-24 HEX 8164005 2 8164	
72 CABLE BATTERY RED 36" 812282 1 8122	
73 CABLE BATTERY BLACK 20" 812341 1 - - 8123	41 1
75 BATTERY 12 V (NOT SUPPLIED, SEE PAGE 3 REF REF RE	REF
FOR BATTERY MODEL AND SPECIFICATIONS)	INEF
76 PIN SAFETY 800365 1 800365 1 800365 1 800365 1 800365 1 800365 1	65 1
77 WASHER LOCK 1/4" EXTERNAL TOOTH 8181007 4 8181	
78 TERMINAL PIGGY BACK 3/16" 8900	
79 BRACKET BATTERY DL 8123	
80 SCREWCAP 1/4"-20 X 1 1/4" HCS ZP 8041	
BOLT CARRIAGE 3/8-16 X 1" ZP 8024058 2	40 1
103 LABEL MADE IN U.S.A. 520116 1 520116 1 520116 1 520116 1 5201	40 1